



### **Press Release**

### US FDA approves Jardiance® (empagliflozin) to treat adults living with heart failure with reduced ejection fraction

- New treatment options are critical, as approximately half of all people with heart failure die within five years of diagnosis
- Heart failure accounts for more than one million hospitalizations a year in the U.S.

**RIDGEFIELD, Conn. and INDIANAPOLIS, August 18, 2021 -** Jardiance® (empagliflozin) 10 mg has been approved by the U.S. Food and Drug Administration to reduce the risk of cardiovascular death plus hospitalization for heart failure in adults with heart failure with reduced ejection fraction (HFrEF), Boehringer Ingelheim and Eli Lilly and Company (NYSE: LLY) announced today.

Jardiance is not for people with type 1 diabetes as it may increase the risk of diabetic ketoacidosis in these patients. It is not for use to improve glycemic control in adults with type 2 diabetes with an eGFR <30 mL/min/1.73 m<sup>2</sup> as it is likely to be ineffective in this setting based upon its mechanism of action.

Jardiance can be initiated in adults with HFrEF with an eGFR as low as 20 mL/min/1.73 m<sup>2</sup>.

"Heart failure is a chronic, debilitating cardio-renal-metabolic condition affecting over 60 million people worldwide. As the prevalence of heart failure continues to rise, the need for new treatment options is critical," said Javed Butler, M.D., Chairman, Department of Medicine, University of Mississippi. "Empagliflozin is a vital new therapeutic option to reduce the risk of cardiovascular death and hospitalization for adults with heart failure with reduced ejection fraction."

HFrEF, which accounts for more than half of heart failure cases, occurs when the heart muscle does not contract effectively and less blood is pumped out to the body compared with a normally functioning heart.

This approval for Jardiance is based on results from the EMPEROR-Reduced phase III trial, which investigated the effect of adding Jardiance 10 mg versus placebo to standard of care in a broad range of 3,730 adults with and without type 2 diabetes who had heart failure (functional class II, III or IV) and a left ventricular ejection fraction of 40% or less. In the trial, Jardiance significantly reduced the relative risk of the primary composite endpoint of time to cardiovascular death or hospitalization for heart failure by 25% (5.3% absolute risk reduction, 0.75 HR, 0.65-0.86 95% CI) versus placebo. These results were seen regardless of background heart failure standard of care treatments.

A key secondary endpoint analysis from EMPEROR-Reduced demonstrated that Jardiance helped keep patients out of the hospital by significantly reducing the relative risk of first and recurrent hospitalization for heart failure by 30% (388 events for Jardiance vs. 553 for placebo, 0.70 HR, 0.58-0.85 95% CI). The safety profile was consistent with the well-established safety profile of Jardiance.

Jardiance is contraindicated in people with hypersensitivity to empagliflozin or any of the excipients of Jardiance as reactions such as angioedema have occurred and is contraindicated in patients on dialysis. **Please see additional Important Safety Information below.** 

"Around half of all people with heart failure, unfortunately, are expected to die within five years of diagnosis. The risk of death increases with each hospitalization for heart failure," said Mohamed Eid, M.D., M.P.H., M.H.A., vice president, Clinical Development & Medical Affairs, Cardio-Metabolism & Respiratory Medicine, Boehringer Ingelheim Pharmaceuticals, Inc. "In the EMPEROR-Reduced trial, Jardiance protected a broad range of adults with heart failure with reduced ejection fraction by reducing risk of cardiovascular death and hospitalization for heart failure, regardless of their baseline heart failure medications or type 2 diabetes status, when added to standard of care. Today's FDA approval of Jardiance in heart failure with reduced ejection fraction, which follows authorization for use in the EU by the European

Commission in June, marks an important milestone in our journey to help transform care for adults with heart failure. We look forward to continuing to investigate the potential benefit of Jardiance across cardio-renal-metabolic conditions."

"Today's approval is significant for the millions of people diagnosed with this form of heart failure, offering additional hope for those who have seen limited new treatment options over the last decade," said Jeff Emmick, M.D., Ph.D., vice president, Product Development, Lilly. "Following EMPA-REG OUTCOME®, this is the second U.S. regulatory decision stemming from the EMPOWER clinical trial program, which is exploring the impact of Jardiance on major clinical cardiovascular outcomes. Jardiance is already a recognized leader for adults with type 2 diabetes, including those who also have established cardiovascular disease. We're excited to build on that legacy with this new indication that establishes Jardiance as an effective treatment for adults with heart failure with reduced ejection fraction – regardless of whether they have type 2 diabetes."

### **About EMPEROR-Reduced**

EMPEROR-Reduced (NCT03057977) was a phase III international, randomized, double-blind trial that enrolled 3,730 adults with and without type 2 diabetes. All participants had heart failure (New York Heart Association [NYHA] functional class II, III or IV) for at least 3 months and a left ventricular ejection fraction of 40% or less at their most recent assessment. At randomization, 75% of patients were NYHA class II, 24% were class III and 0.5% were class IV.

Participants were randomized to once-daily Jardiance 10 mg (n=1,863) or placebo (n=1,867), on top of treatment with guideline-directed heart failure therapy. Median follow-up time was 16 months. The composite primary endpoint was defined as time to first event of cardiovascular death or hospitalization for heart failure.

#### **Prioritizing Cardio-Renal-Metabolic Care**

Through research and educational initiatives, Boehringer Ingelheim and Lilly are driven to redefine care for people with cardio-renal-metabolic conditions, a group of interconnected disorders that affect more than one billion people worldwide and are a leading cause of death.

The cardiovascular, renal (kidney) and metabolic systems are closely intertwined and share many of the same disease-related pathways. Dysfunction in one system may accelerate the onset of dysfunction in others, resulting in the progression of comorbid diseases such as type 2 diabetes, heart failure and chronic kidney disease. Conversely, improving the health of one system can lead to positive effects across the others and can help reduce the risk for further complications.

Understanding their interconnected nature, we are working to advance treatments for people with cardio-renal-metabolic conditions. It is only through a holistic approach to care that we can truly transform outcomes and restore the harmony between these critical systems.

#### What is JARDIANCE? (www.jardiance.com)

JARDIANCE is a prescription medicine used to:

- lower blood sugar along with diet and exercise in adults with type 2 diabetes
- reduce the risk of cardiovascular death in adults with type 2 diabetes who also have known cardiovascular disease
- reduce the risk of cardiovascular death and hospitalization for heart failure (when the heart is weak and cannot pump enough blood to the rest of your body) in adults with heart failure

JARDIANCE is not for people with type 1 diabetes. It may increase their risk of diabetic ketoacidosis (increased ketones in the blood or urine).

JARDIANCE is not for use to lower blood sugar in adults with type 2 diabetes who have severe kidney problems, because it may not work.

#### IMPORTANT SAFETY INFORMATION

Do not take JARDIANCE if you are allergic to empagliflozin or any of the ingredients in JARDIANCE.

Do not take JARDIANCE if you are on dialysis.

### JARDIANCE can cause serious side effects, including:

- Ketoacidosis (increased ketones in your blood or urine). Ketoacidosis is a serious condition which needs to be treated in the hospital. Ketoacidosis may lead to death. Ketoacidosis occurs in people with type 1 diabetes and can also occur in people with type 2 diabetes taking JARDIANCE, even if blood sugar is less than 250 mg/dL. Ketoacidosis has also happened in people with diabetes who were sick or who had surgery during treatment with JARDIANCE. Stop taking JARDIANCE and call your healthcare provider right away or go to the nearest hospital emergency room if you get any of the following symptoms, and if possible, check for ketones in your urine:
  - nausea
  - vomiting
  - stomach-area (abdominal) pain
  - tiredness
  - trouble breathing
- **Dehydration. JARDIANCE** can cause some people to become dehydrated (the loss of body water and salt). Dehydration may cause you to feel dizzy, faint, light-headed, or weak, especially when you stand up. Sudden worsening of kidney function has happened in people who are taking JARDIANCE.

You may be at a higher risk of dehydration if you:

- take medicines to lower your blood pressure, including water pills (diuretics)
- are on a low salt diet
- have kidney problems
- are 65 years of age or older

Talk to your healthcare provider about what you can do to prevent dehydration, including how much fluid you should drink on a daily basis, and if you reduce the amount of food or liquid you drink, if you are sick or cannot eat, or start to lose liquids from your body from vomiting, diarrhea, or being in the sun too long.

- Serious urinary tract infections. Serious urinary tract infections can occur in people taking JARDIANCE and may lead to hospitalization. Tell your healthcare provider if you have symptoms of a urinary tract infection, such as a burning feeling when passing urine, a need to urinate often or right away, pain in the lower part of your stomach or pelvis, or blood in the urine. Sometimes people also may have a fever, back pain, nausea or vomiting.
- Low blood sugar (hypoglycemia): If you take JARDIANCE with another medicine that can cause low blood sugar, such as sulfonylurea or insulin, your risk of low blood sugar is higher. The dose of your sulfonylurea or insulin may need to be lowered. Symptoms of low blood sugar may include:
  - headache
  - drowsiness
  - weakness
  - dizziness
  - confusion

- irritability
- hunger
- fast heartbeat
- sweating
- shaking or feeling jittery
- Necrotizing fasciitis. A rare but serious bacterial infection that causes damage to the tissue under
  the skin in the area between and around your anus and genitals (perineum). This bacterial infection
  has happened in women and men who take JARDIANCE, and may lead to hospitalization, multiple
  surgeries, and death. Seek medical attention immediately if you have fever or are feeling very
  weak, tired or uncomfortable (malaise), and you develop any of the following symptoms in the
  area between and around your anus and genitals: pain or tenderness, swelling, and redness of skin
  (erythema).
- **Vaginal yeast infection.** Talk to your healthcare provider if you have vaginal odor, white or yellowish vaginal discharge (discharge may be lumpy or look like cottage cheese), and/or vaginal itching.
- Yeast infection of the penis. Swelling of an uncircumcised penis may develop that makes it difficult to pull back the skin around the tip of the penis. Talk to your healthcare provider if you

have redness, itching or swelling of the penis, rash of the penis, foul smelling discharge from the penis, and/or pain in the skin around the penis.

Talk to your healthcare provider about what to do if you get symptoms of a yeast infection of the vagina or penis. Your healthcare provider may suggest you use an over-the-counter antifungal medicine. Talk to your healthcare provider right away if you use an over-the-counter antifungal medication and your symptoms do not go away.

- Allergic (hypersensitivity) reactions. Symptoms of serious allergic reactions to JARDIANCE may include:
  - o swelling of your face, lips, throat, and other areas of your skin
  - o difficulty with swallowing or breathing
  - o raised, red areas on your skin (hives)

If you have any of these symptoms, stop taking JARDIANCE and contact your healthcare provider or go to the nearest emergency room right away.

**The most common side effects of JARDIANCE** include urinary tract infections and yeast infections in females.

These are not all the possible side effects of JARDIANCE. For more information, ask your healthcare provider or pharmacist.

Before taking JARDIANCE, tell your healthcare provider about all of your medical conditions, including if you:

- have kidney problems
- have liver problems
- have a history of infection of the vagina or penis
- have a history of urinary tract infections or problems with urination
- are going to have surgery. Your healthcare provider may stop your JARDIANCE before you have surgery.
   Talk to your healthcare provider if you are having surgery about when to stop taking JARDIANCE and when to start it again
- are eating less or there is a change in your diet
- have or have had problems with your pancreas, including pancreatitis or surgery on your pancreas
- drink alcohol very often, or drink a lot of alcohol in the short term ("binge" drinking)
- have type 1 diabetes. JARDIANCE should not be used to treat people with type 1 diabetes
- are pregnant or plan to become pregnant. JARDIANCE may harm your unborn baby. Tell your healthcare provider right away if you become pregnant during treatment with JARDIANCE
- are breastfeeding or are planning to breastfeed. JARDIANCE may pass into your breast milk and may harm your baby. Do not breastfeed while taking JARDIANCE

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements. Especially tell your healthcare provider if you take water pills (diuretics) or medicines that can lower your blood sugar, such as insulin.

You are encouraged to report negative side effects of prescription drugs to the FDA. Visit www.fda.gov/medwatch or call 1-800-FDA-1088.

For more information, please see Prescribing Information and Medication Guide.

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Boehringer Ingelheim and Eli Lilly and Company

In January 2011, Boehringer Ingelheim and Eli Lilly and Company announced an alliance that centers on compounds representing several of the largest diabetes treatment classes. Depending on geographies, the companies either co-promote or separately promote the respective molecules each contributing to the alliance. The alliance leverages the strengths of two of the world's leading pharmaceutical companies to focus on patient needs. By joining forces, the companies demonstrate their commitment, not only to the care of people with diabetes, but also to investigating the potential to address areas of unmet medical need. Clinical trials have been initiated to evaluate the impact of Jardiance on people living with heart failure or chronic kidney disease.

#### **About Boehringer Ingelheim**

Making new and better medicines for humans and animals is at the heart of what we do. Our mission is to create breakthrough therapies that change lives. Since its founding in 1885, Boehringer Ingelheim is independent and family-owned. We have the freedom to pursue our long-term vision, looking ahead to identify the health challenges of the future and targeting those areas of need where we can do the most good.

As a world-leading, research-driven pharmaceutical company, with around 52,000 employees, we create value through innovation daily for our three business areas: Human Pharma, Animal Health, and Biopharmaceutical Contract Manufacturing. In 2020, Boehringer Ingelheim achieved net sales of around 22.33 billion USD (19.57 billion EUR). Our significant investment of over 4.2 billion USD (3.7 billion EUR) in 2020 (18.9% of net sales) in R&D drives innovation, enabling the next generation of medicines that save lives and improve quality of life.

We realize more scientific opportunities by embracing the power of partnership and diversity of experts across the life-science community. By working together, we accelerate the delivery of the next medical breakthrough that will transform the lives of patients now, and in generations to come.

Boehringer Ingelheim Pharmaceuticals, Inc., based in Ridgefield, CT, is the largest U.S. subsidiary of Boehringer Ingelheim Corporation and is part of the Boehringer Ingelheim group of companies. In addition, there are Boehringer Ingelheim Animal Health in Duluth, GA and Boehringer Ingelheim Fremont, Inc. in Fremont, CA.

Boehringer Ingelheim is committed to improving lives and strengthening our communities. Please visit www.boehringer-ingelheim.us/csr to learn more about Corporate Social Responsibility initiatives.

For more information, please visit www.boehringer-ingelheim.us, or follow us on Twitter @BoehringerUS.

### **About Lilly Diabetes**

Lilly has been a global leader in diabetes care since 1923, when we introduced the world's first commercial insulin. Today we are building upon this heritage by working to meet the diverse needs of people with diabetes and those who care for them. Through research, collaboration and quality manufacturing we strive to make life better for people affected by diabetes and related conditions. We work to deliver breakthrough outcomes through innovative solutions—from medicines and technologies to support programs and more. For the latest updates, visit <a href="http://www.lillydiabetes.com/">http://www.lillydiabetes.com/</a> or follow us on Twitter: <a href="@LillyDiabetes">@LillyDiabetes</a> and Facebook: <a href="LillyDiabetesUS">LillyDiabetesUS</a>.

#### **About Eli Lilly and Company**

Lilly is a global health care leader that unites caring with discovery to create medicines that make life better for people around the world. We were founded more than a century ago by a man committed to creating high-quality medicines that meet real needs, and today we remain true to that mission in all our work. Across the globe, Lilly employees work to discover and bring life-changing medicines to those who need them, improve the understanding and management of disease, and give back to communities through philanthropy and volunteerism. To learn more about Lilly, please visit us at <a href="lilly.com/newsroom">lilly.com/newsroom</a>.

This press release contains forward-looking statements (as that term is defined in the Private Securities Litigation Reform Act of 1995) about Jardiance and reflects Lilly's current belief. However, as with any pharmaceutical product, there are substantial risks and uncertainties in the process of drug development and commercialization.

Among other things, there can be no guarantee that future study results will be consistent with the results to date or that Jardiance will receive additional regulatory approvals. For a further discussion of these and other risks and uncertainties that could cause actual results to differ from Lilly's expectations, please see Lilly's most recent Forms 10-K and 10-Q filed with the U.S. Securities and Exchange Commission. Lilly undertakes no duty to update forward-looking statements.

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